

Series 29 - HFB Cavity DPC

Date: 19/01/2021

Reference: 8

Issue: 1

GIS HFB Cavity DPC is designed for horizontal application to suit both Masonry/Blockwork and Masonry/Timberframe construction applications. **GIS HFB Cavity DPC** is designed to prevent the spread of flames and smoke as well as reducing the spread of sound along the length of a cavity wall. **GIS HFB Cavity DPC** is designed to meet current fire and building regulations and are rigorously tested to current accreditation and provides up to 4 hours fire integrity and has the added advantage of forming the cavity tray without extra costs or another products use. **GIS HFB Cavity DPC** is 1200mm long and is manufactured from Knauf ECOSE Mineral Wool and is encapsulated in recycled plastics on a DPC backing.



HFB CAVITY DPC TECHNICAL DATA

FIRE

GIS HFB Cavity DPC is manufactured using Knauf ECOSE Rock Slab which has a fire classification of EUROCCASS A1 tested to BSEN13501-1 which is encapsulated in recycled plastic which will not add to the propagation of a fire the DPC backing is made to BS6515:84. All **GIS HFB Cavity DPC** is tested in application to BSEN1366-4 as was BS476: Part 20 using current fire test methods.

ACOUSTICS

GIS HFB Cavity DPC meets the generic requirements for the prevention of flanking noise transmission, along external walls. Meeting approved document E of the building regulations.

THERMAL

GIS HFB Cavity DPC have a thermal conductivity of 0.035W/mK and when fitted will provide an effective perimeter edge seal as stated in building regulations L1A and L2A as well as meeting section 6 of the Scottish building standards.

COMPLIANCE

GIS HFB Cavity DPC when correctly fitted meet the requirements laid out in part E of robust detail.

For masonry in a separating wall, E-WM 1-21 is met.

For Timber Frame in a separating wall E-WT 1-4 is met and in a separating floor application E-FT 1-6 is met.

For concrete in separating floor applications E-FC 1-14 is met.

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ENVIRONMENT

Guardian Insulation Solutions Environmental policy is designed to reduce waste and reduce our carbon footprint. All products used are chosen for helping us, as a company, to achieve this goal. The KNAUF INSULATIONS ECOSE mineral wool slab meets these requirements. The ECOSE technology used is the first organic binder in the UK for mineral wool. The ECOSE slabs are free from CFCs, HCFCs and contain no other material elements which have ozone depletion potential. Thus they exceed the requirements of BREEAM entering a classification of ZERO ODP as well as ZERO GWP. Where low environmental impact is a key design consideration these products help achieve this goal.



GIS HFB CAVITY DPC INSTALLATION

GIS 1200mm long Cavity DPC can be used in both brick/block and brick/timber frame party wall applications.

When installing **GIS HFB Cavity** DPC they are designed to be compression fitted in the cavity wall horizontally during construction. When fitting extra care must be taken to ensure all butt joints are tightly fitted this is to maintain the fire and acoustic integrity of the product. A minimum of 50mm overlap with the party wall leaf on either side of the party wall cavity must be maintained to meet current fire and acoustic requirements. The DPC is then used to form the tray fixed to inner leaf or built into the brickwork.

It is critical that the **GIS HFB Cavity** DPC fills the cavity from the rear of the outer leaf to the face of the inner leaf, any cavity insulation must be cut back at either side of the party wall in the outer cavity to allow this fitting method.

When fitting vertically the 100mm end lap must be fitted at the bottom, then as the build progresses the lap forms a continual barrier preventing the ingress of moisture.

GIS HFB CAVITY DPC HANDLING

GIS HFB Cavity DPC are packaged in outer polythene bags for transport and ease of handling. The product must not be stored in direct sunlight as this may cause the plastic to degrade. It is recommended that the goods are covered or stored indoors if standing for a period of time prior to use. Local delamination from the DPC may occur during handling this does not affect the performance of the product when fitted as it is under compression.

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<u>PRODUCT REF</u>	<u>INSULATION WIDTH</u>	<u>DPC WIDTH</u>	<u>TO SUIT CAVITY SIZE</u>
HFB/100/15-24	100mm	337mm	15-24
HFB/100/25-39	100mm	337mm	25-39
HFB/100/40-50	100mm	337mm	40-50
HFB/100/51-65	100mm	337mm	51-65
HFB/100/66-75	100mm	337mm	66-75
HFB/100/76-90	100mm	337mm	76-90
HFB/100/91-100	100mm	337mm	91-100
HFB/100/101-120	100mm	337mm	101-120
HFB/100/121-130	100mm	450mm	121-130
HFB/100/131-140	100mm	450mm	131-140
HFB/150/25-39	150mm	450mm	25-39
HFB/150/40-50	150mm	450mm	40-50
HFB/150/51-65	150mm	450mm	51-65
HFB/150/66-75	150mm	450mm	66-75
HFB/150/76-90	150mm	450mm	76-90
HFB/150/91-100	150mm	450mm	91-100
HFB/150/101-120	150mm	450mm	101-120
HFB/150/121-130	150mm	450mm	121-130
HFB/150/131-140	150mm	450mm	131-140
HFB/150/141-150	150mm	450mm	141-150
HFB/150/151-165	150mm	600mm	151-165
HFB/200/76-90	200mm	600mm	76-90
HFB/200/91-100	200mm	600mm	91-100
HFB/200/101-120	200mm	600mm	101-120
HFB/200/121-130	200mm	600mm	121-130
HFB/200/131-140	200mm	600mm	131-140
HFB/200/141-150	200mm	600mm	141-150
HFB/200/151-165	200mm	600mm	151-165
HFB/200/166-185	200mm	600mm	166-185
HFB/200/186-205	200mm	600mm	186-205
HFB/200/206-225	200mm	600mm	206-225
HFB/200/226-250	200mm	600mm	226-250
HFB/200/251-265	200mm	750mm	251-265
HFB/200/266-280	200mm	750mm	266-280
HFB/200/281-300	200mm	750mm	281-300